

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Edward J. Kroliczek et al.
Serial No. : 10/602,022
Filed : June 24, 2003
Title : HEAT TRANSPORT SYSTEM

Art Unit : 3743
Examiner : Nihir B. Patel

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Commissioner for Patents
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Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Applicants request consideration of the references listed on the attached PTO-1449 form. Under 37 C.F.R. § 1.98 (a)(2)(ii), only copies of foreign patent documents and/or non-patent literature are enclosed. Copies of any listed U.S. patents or U.S. patent application publications can be provided upon request. A copy of a communication from a foreign patent office in a counterpart application is also enclosed.

This filing is being made with the filing of a Request for Continued Examination. No fee is required. Nevertheless, please apply any charges or credits to Deposit Account No. 06-1050.

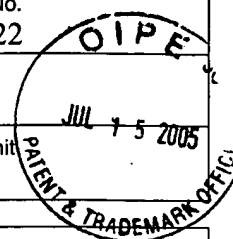
Respectfully submitted,

Date: July 15, 2005

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Substitute Form PTO-1449 (Modified) Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 13442-008001	Application No. 10/602,022
	Applicant Edward J. Kroliczek et al.		
	Filing Date June 24, 2003	Group Art Unit 3743	



U.S. Patent Documents							
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	AA	4,862,708	09/1999	Basiulis, Algerd			
	AB	5,771,967	06/1998	Hyman			
	AC	5,816,313	10/1998	Baker, David			
	AD	5,950,710	09/1999	Liu, Chunyan			
	AE	6,382,309 B1	05/07/2002	Kroliczek et al.			
	AF	6,810,946	11/02/2004	Hoang			
	AG	6,889,754 B2	05/10/2005	Kroliczek et al.			
	AH	2004/0182550	09/23/2004	Kroliczek et al.			
	AI	2004/0206479	10/21/2004	Kroliczek et al.			

Foreign Patent Documents or Published Foreign Patent Applications								
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	AJ	1 467 354	01/22/1997	Soviet Union			Abstract	
	AK	2 098 733	03/07/1995	Russia			Abstract	
	AL	0 210 337	02/04/1987	Europe			Abstract	
	AM	WO 02/10661	07/07/2003	WIPO			X	
	AN	0 987 509	03/2000	Europe			Abstract	
	AO	2000-555777	02/25/2000	Japan			Abstract	

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
	AP	"A high power spacecraft thermal management system," J. Ku, et al., AIAA-1988-2702, Thermophysics, Plasmadynamics and Lasers Conference, San Antonio, TX, June 27-29, 1988, 12 pages
	AQ	"A methodology for enveloping reliable start-up of LHPS," Jane Baumann et al., AIAA-2000-2285, AIAA Thermophysics Conference, 34th, Denver, CO, June 19-22, 2000, 9 pages
	AR	"Across-Gimbal and Miniaturized Cryogenic Loop Heat Pipes," Bugby, D. et al., CP654, Space Technology and Applications International Forum-STAIF 2003, edited by M.S. El-Genk, American Institute of Physics, 2003, pages 218-226
	AS	"Advanced Capillary Pumped Loop (A-CPL) Project Summary," Hoang, Contract No.: NAS5-98103, March 1994, Pages 1-37

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	AT	"Advanced Components for Cryogenic Integration," Bugby, D. et al., Cryocoolers 12, edited by R.G. Ross, Jr., Kluwer Academic/Plenum Publishers, 2003, pages 693-708
	AU	"Advanced Components for Cryogenic Integration," D. Bugby et al., Proceedings of the 12th International Cryocooler Conference, held June 18-20, 2002, in Cambridge MA., 15 pages
	AV	"Advanced Components and Techniques for Cryogenic Integration," D. Bugby et al., Environmental systems-International conference; 31st, SOCIETY OF AUTOMOTIVE ENGINEERS NEW YORK, 2001-01-2378, Orlando, FL 2001; Jul (200107), 9 pages
	AW	"Advanced Components and Techniques for Cryogenic Integration," D. Bugby et al., presented at 2002 Spacecraft Thermal Control Symposium by Swales Aerospace, El Segundo, CA, March, 2002, 14 pages
	AX	"An Improved High Power Hybrid Capillary Pumped Loop," J. Ku et al., paper submitted to SAE 19th Intersociety Conference on Environment Systems, SAE 891566, San Diego, CA, July 24-27, 1989, 10 pages
	AY	"Design and Experimental Results of the HPCPL," Van Oost et al., ESTEC CPL-96 Workshop, Noordwijk, Netherlands, 1996, 29 pages
	AZ	"Design and Test of a Proof-of-Concept Advanced Capillary Pumped Loop," Triem T. Hoang, Society of Automotive Engineers, presented at the 27th Environmental systems International conference, New York, 1997, Paper 972326, 6 pages
	AAA	"Design and Test Results of Multi-Evaporator Loop Heat Pipe," Yun, Seokgeun, et al., SAE Paper No. 1999-01-2051, 29th International Conference on Environmental Systems, July 1999, 7 pages
	ABB	"Design and Testing of a 40 W Free-Piston Stirling Cycle Cooling Unit," Berchowitz, D. M. et al., 20th International Conference of Refrigeration, IIR/IIF, Sydney, 1999, 7 pages.
	ACC	"Design and Testing of a High Power Spacecraft Thermal Management System," McCabe, Jr., Michael E. et al., National Aeronautics and Space Administration (NASA), NASA Technical Memorandum 4051, Scientific and Technical Information Division, 1988, 107 pages
	ADD	"Development and Testing of a Gimbal Thermal Transport System," D. Bugby et al., Proceedings of the 11th International Cryocooler Conference, held June 20-22, 2000, in Keystone, Colorado, 11 pages
	AEE	"Development of a Cryogenic Loop Heat Pipe (CLHP) for Passive Optical Bench Cooling Applications," James Yun, et al., 32nd International Conference on Environmental Systems (ICES-2002), Society of Automotive Engineers Paper No. 2002-01-2507, San Antonio, Texas, 2002, 9 pages
	AFF	"Development of an Advanced Capillary Pumped Loop," Triem T. Hoang et al., Society of Automotive Engineers, presented at the 27th Environmental systems International conference, New York, 1997, Paper 972325, 6 pages
	AGG	"Development of Advanced Cryogenic Integration Solutions," D. Bugby et al., presented at the 10th International Cryocoolers Conference on May 26-28, 1998 in Monterey, CA and published in "Cryocoolers 10," by Ron Ross, Jr., Kluwer Academic/Plenum Publishers, NY 1999, 17 pages
	AHH	"Energy Efficient Freezer Installation Using Natural Working Fluids and a Free Piston Stirling Cooler," Welty, Stephen C. et al., VI Congreso Iberoamericano De Aire Acondicionado Y Refrigeracion, CIAR 2001, Trabajo No. 96, pp. 199-208, August 15-17, 2001.
	AII	"Experimental Investigation of a Stirling Cycle Cooled Domestic Refrigerator," Oguz, Emre et al., 9th Proceedings of the International Refrigeration and Air Conditioning Conference at Purdue, 2002; 9th; Vol. 2, pp. 777-784.
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Other Documents (include Author, Title, Date, and Place of Publication)		
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	AJJ	"Free-Piston Rankine Compression and Stirling Cycle Machines for Domestic Refrigeration," Berchowitz, David M., Presented at the Greenpeace Ozon Safe Conference, Washington, DC, October 18-19, 1993
	AKK	"Hydrogen Loop Pipe Design & Test Results," O'Connell et al., presented at 2002 Spacecraft Thermal Control Symposium by TTH Research, El Segundo, CA, March 2002, 14 pages
	ALL	"Maximized Performance of Stirling Cycle Refrigerators," Berchowitz, D. M., Natural working fluids '98 IIR – Gustav Lorentzen Conference: Oslo, Norway, June 2-5, 1998, Fluides actifs naturels conference IIF-Gustav Lorentzen, Journal: Science et technique du froid, 1998 (4) 422-429
	AMM	"Measurement and application of performance characteristics of a Free Piston Stirling Cooler," Janssen, Martien et al., 9th International Refrigeration and Air Conditioning Conference, July 16-19, 2002, 8 pages.
	ANN	"Methods of Increase of the Evaporators Reliability for Loop Heat Pipes and Capillary Pumped Loops," Kotlyarov, E. Yu et al., 24th International Conference on Environmental Systems, June 20-23, 1994, 941578, 7 pages.
	AOO	"Multiple Evaporator Loop Heat Pipe," James Yun, et al., Society of Automotive Engineers, 2000-01-2410, 30th International Conference on Environmental Systems, July 10-13, 2000, 10 pages
	APP	"Operational Characteristics of Loop Heat Pipes," Jentung Ku, 29th International Conference on Environmental Systems, Denver, CO, July 12-15, 1999, 17 pages
	AQQ	"Operational Characteristics of Stirling Machinery," Kwon, Yong-Rak et al., International Congress of Refrigeration, August 17-22, 2003, 8 pages.
	ARR	"Recent Advances in Capillary Pumped Loop Technology," J. Ku, 1997 National Heat Transfer Conference, Baltimore, MD, August 10-12, 1997, AIAA 97-3870, 22 pages
	ASS	"Recent Advances in Stirling Cycle Refrigeration," Berchowitz, D. M. et al., 1995, 19th International Conference of Refrigeration, The Hague, The Netherlands, 8 pages.
	ATT	"Testing of a Capillary Pumped Loop with Multiple parallel starter pumps," J. Ku et al, SAE Paper No. 972329, 1997
	AUU	"Test Results of Reliable and Very High Capillary Multi-Evaporators/Condenser Loop," Van Oost, Stéphane et al., 25th International Conference on Environmental Systems, July 10-13, 1995, 6 pages.
	AVV	"The Hybrid Capillary Pumped Loop," J. Ku et al., paper submitted to SAE 18th Intersociety Conference on Environmental Systems, SAE 881083, San Francisco, CA, July 11-13, 1988, 11 pages
	AWW	"The Proof-of-feasibility of Multiple Evaporator Loop Heat Pipes," W.B. Bienert et al., Proceedings of the Eighth Annual Spacecraft Thermal Control Workshop, 1997, 8 pages
	AXX	"The Application of Stirling Cooler to Refrigeration," Kim, Seon-Young et al., IECEC-97-Intersociety Energy Conversion Engineering Conference, 1997, Conference 32, Vol. 2, pp. 1023-1026.

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